

Facility Name	Contact	Phone
T Check off the appropriate boxes so that proper air pollution estimates can be made. Organize your data to try to optimize data quality		
" No. of Bulk Storage Tanks for VOCs other than fuel oil _____		
" Mixing Room personnel mix formulations to our own specifications	" Mixing Room has general ventilation and/or floor sweeps	
" Mixing Room personnel merely stir formulations already in drums	" Mixing Room has all VOC emissions vented to air pollution control equipment	
" Fabric Coating	" Fabric Printing	" High Solids Coating
" Paper Coating	" Roller	" Water-Borne Coating
" Large Appliances	" Rotary Screen	" Dip
" Magnet Wire Surface Coating	" Flat Screen	" Spray
" Surface Coating of Autos & Light Trucks		" Ultraviolet Coating
" Metal Can Coating	" Paper Printing	" Electrostatic Spray
" Metal Coil Coating	" Flexographic Printing	" Interior Coating
" Metal Furniture Surface Coating	" Rotogravure Printing	" Exterior Coating
" Wood Furniture Surface Coating	" Roll Printing	" Filler
" Surface Coating of Flat Wood Paneling	" Packaging Rotogravure Printing	" Sealer
" Surface Coating of Plastic Parts	" Publication Rotogravure Printing	" Electrodeposition
" Surface Coating of Large Ships	" Specialty Printing	" Adhesive
" Surface Coating of Large Aircraft	" Lithography	" Paint
" Surface Coating of Miscellaneous Metal Parts	" Letter Press	" Enamel
" Surface Coating of Steel Drums		" Varnish/Shellac
" Vinyl Coating	" Printing/Other (specify) _____	
" Wood Product Coating	" Pressure Sensitive Tape	
" Surface Coating/Other (specify) _____	" Formulation/Other (specify) _____	

For each VOC control device utilized by your facility, report the following data:

RI DEM Approval No.					
# days operated June - August, 2004					
# days operated all other months, 2004					
# days by-passed June - August, 2004					
# days by-passed all other months, 2004					

Return to: Air Pollution/Toxics Inventory, Office of Air Resources
235 Promenade Street, Providence, RI 02908-5767

Substrate for Formulations on this Spreadsheet: _____

Solvent Names in Alphabetical Order with CAS No.>>>>

TOTAL VOC (LBS):

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Rhode Island Department of Environmental Management
2004 Air Pollution Inventory

Surface Coaters and Printers Basic Sample Spreadsheet
Weight % Data

Facility Name: Protection Metalcoat

Substrate for Formulations on this Spreadsheet: METAL

COATING, INK or FORMULATION NAME	These should add << up to 100% >>			WEIGHT OF ONE GALLON (LBS.)	CALCULATED TOTAL VOCs* (LBS.)	Solvent Names Continue in Alphabetical Order with CAS No. >>>>					
	2004 AMOUNT USED (GALS.)	PERCENT SOLIDS (WT %)	TOTAL VOC (WT %)			ACETONE 67641 (WT %)	BUTYL CELLO- SOLVE 111762 (WT %)	ISO BUTYL ACETATE 110190 (WT %)	METHYL ETHYL KETONE 78933 (WT %)	MISC. VOCs 1 (WT %)	TOLUENE 108883 (WT %)
BerryPrime 42a	255	56	44	9.42	1056.92	7	7	5.5	20	2	2.5
MEK Thinner added	10	0	100	6.72	67.20				100		
Metallic Primer 4018	690	42	58	10.20	4082.04		15	12		1	30
Thinner added, METALWASH	55	0	100	7.24	398.20			45			55
.											
.											
.											
Waste Coating(s), Ink(s) or Formulation(s) Disposed**	55	75	25	9.50	-130.63				10	2	13

TOTAL VOC (lbs):	5473.74	including acetone
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Note: Misc. VOCs include isopropyl acetate (CAS 108214) and methyl amyl ketone (CAS 110430) only.

* Total VOCs can be calculated with this equation: (amount of coating used (gals) x weight of 1 gallon (lbs)) x (total VOC weight % / 100)

** Please provide chemical analysis of the waste coating/ink/formulation if available.

- „ Please indicate if water is included in the coating/ink/formulation. If there are many water-based formulations, add a column in your spreadsheet for % water.
- „ On a separate sheet, please provide a list of any air pollution control equipment for the coating or printing process and the capture and destruction efficiencies of the equipment.
- „ Acetone may be included in order to show a full accounting of the formulation. Operating Permit fees, if applicable, will not be assessed on delisted chemicals.

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Air Pollution Inventory Form D, Page 2 Sample

**Rhode Island Department of Environmental Management
2004 Air Pollution Inventory**



Supplemental Chemical Use Survey

Page _____ of _____

Facility Name

Signature of Person Completing Form

Date

Note: Report only those substances used at the facility which have not been reported on the Surface Coating/Printing/Formulation Use Spreadsheet.

VOC or Regulated Substance Name & CAS Number			
	CAS:	CAS:	CAS:
Type of Operation			
Starting Inventory* (1/1/2004)			
Amount Purchased in 2004			
Ending Inventory* (12/31/2004)			
Amount Manifested and % of that manifested waste which was the Regulated Substance*			
	%	%	%
Amount of Substance Released to Air			
Air Pollution Control Equipment and Approval No.	Type:	Type:	Type:
	Appr. No.:	Appr. No.:	Appr. No.:
Capture Efficiency (Percent)			
Overall Efficiency (Percent)			

*If known

(attach additional sheets if necessary)

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Air Pollution Inventory Form D, Page 3

Instructions for Supplemental Chemical Use Survey

Regulated Substance - List all Volatile Organic Compounds (VOC) **and** all chemicals listed on the list entitled "Listed Toxic Air Contaminants" (see purple sheet) that were used at and/or emitted from the facility. Provide a CAS number, usually available on your MSDS. **Please note that all miscellaneous volatile organic compounds (VOCs) used in excess of 100 pounds must be reported even if the name is not specifically listed on the Listed Toxic Air Contaminants List.**

Type of Operation - Describe the process in which the listed substance was used (for example, degreasing, plating, wipe cleaning, etc.).

Starting Inventory - Report the amount of the substance present on site at the start of the year, if known. State whether the amount is given in pounds or gallons. Please provide data in pounds if possible.

Amount Purchased - Report the amount of the substance purchased in 2004 and indicate whether the number given is in pounds or gallons. Again, provide data in pounds if possible.

Ending Inventory - Report the amount of the substance present on site at the end of the year, if known. State whether the amount is given in pounds or gallons.

Amount Manifested - Report the amount (in pounds) of the regulated substance which was manifested as hazardous waste and the percentage of that waste that was this chemical. Please attach copies of all manifest records for proper credit.

Amount of Substance Released to Air - Calculate the amount of the substance emitted to air. Include both fugitive and stack emissions. **Attach documentation of the calculations used.** You may find it necessary to make other mass balance adjustments such as an amount disposed in a landfill or discharged to a POTW. Label carefully.

Describe Air Pollution Control Equipment - Provide a short description of the equipment used to control emissions of the regulated substance, if any. Examples follow:

Type: Carbon adsorber, venturi scrubber, VOC incinerator, baghouse, etc.
Include RI DEM Approval Number, if known.

Capture: Give the capture efficiency for this chemical.

Overall: Give the overall control efficiency of the control equipment for this chemical.
 $\text{Overall Efficiency} = \text{Capture Efficiency} \times \text{Destruction or Recovery Efficiency}$

Note: On a separate sheet, please provide any additional information pertinent to your processes or air pollution control equipment that will assist us in calculating an accurate emissions estimate from your facility for 2004.